



**To:** Zero Waste Advisory Commission  
**From:** Sam Angoori, P.E., Interim Director  
Austin Resource Recovery Department  
**Date:** October 11, 2017  
**Subject:** **Director's Monthly Report to the Zero Waste Advisory Commission**

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### **Mattress Recycling Options**

Staff is currently working to develop options to remove mattresses from landfill disposal and develop options for the recycling of them, as well as increase our diversion rate. ARR staff will be piloting an on-call bulk collection program over selected areas in the city in the first quarter of 2018 and will use the data collected to help develop a more cost efficient method for collecting mattresses. New alternatives to landfill disposal may consist of the use of drop off sites, city staff collection and/or processing, public private partnership for collection and/or processing, as well as development of legislative language promoting product stewardship that could be submitted in the next legislative session.

### **Residential Curbside Composting Update**

- Austin Resource Recovery started a pilot program in early 2013 and expanded the pilot to additional homes in February 2014.
- Staff designed the citywide program based on customer feedback and learnings from the pilot phase. Staff expects to provide the service to about 90,000 of its more than 190,000 curbside customers by the end Fiscal Year 2018.
- Extensive public education and outreach is planned to ensure that customers know how to properly participate in the new service. Outreach activities begin at least 3 months prior to new customers being added to the service, including direct mail, door-to-door outreach, and neighborhood-level workshops, presentations and trainings.
- Austin Resource Recovery estimates that a rate increase of approximately \$4/month will be required to fund the citywide expansion of the service. Total cost for the equipment and trucks for the service once it is fully expanded/rolled out is \$15.8 million and the ongoing annual operating expense for the 28 new FTEs and organics processing fees is approximately \$5.1 million. City Council approved a \$1/month rate increase in the FY 2017 budget. Additional rate increases will be required in the future to continue to expand the service citywide.

### **ARR Assistance to City of Houston**

In response to Hurricane Harvey, and the heavy rains and severe weather that occurred throughout the Houston region, immediate City activities have taken place to provide on-going relief assistance and overnight shelter for affected residents. Following the storms, debris removal began, as well as a full-scale damage assessment of the affected areas.

On Tuesday, September 5, a Special Called Meeting of the Austin City Council was convened to discuss and take appropriate action related to the effects of Hurricane Harvey, to include appropriation of staff, funds, supplies and equipment to address emergencies along the Texas gulf coast and the execution of agreements to accomplish the same.

The Cities of Austin and Houston have entered into agreements in the past to provide mutual aid in the form of personnel, supplies, and equipment during disasters and civil emergencies, and aid has successfully been provided in accordance with those agreements. In the aftermath of Hurricane Harvey, the City of Houston proposed an updated mutual aid agreement to meet the needs of both municipalities created by this event.

The Austin City Council authorized negotiation and execution of an interlocal agreement in the form of a mutual aid agreement with the City of Houston to furnish aid in response to an emergency, including in response to a natural event such as Hurricane Harvey.

During the days following the storms, ARR received a request from the City of Houston for staff and equipment to manage the widespread debris left in the wake of the storms. Houston asked the City of Austin to begin debris removal operations in the right of way, in an area of north Houston bound by FM 1960 to the north, Loop 610 to the south, Hwy 290 to the west and Hwy 249 to the east. This initial relief effort began Sunday, September 10, 2017 and will continue through October 21, 2017, encompassing 42 days.

Staffing of 19 people includes ARR Operators, Operator Specialists, Crew Leaders, Supervisors, Mechanics and Managers that will work a rotating 5-day, 12-hour work schedule. Managers are responsible for coordination with City of Houston Emergency Operations and Solid Waste staff, day to day operations, and proper documentation of debris collection activities and financial information. ARR staff will be provided with lodging and meals as well as supplies such as uniforms, bottled water, tools, and safety supplies that would be used during normal day to day operations.

Equipment types include cranes, roll-off trucks, dump trucks, front-end and rear loaders. ARR employees have collected over 1,200 tons of flood debris from September 10th - September 26th. ARR will calculate the cost estimate using the FEMA expense rate which factors in wear/tear, maintenance, fuel, etc.

### **Actions Taken by City Council since last ZWAC Meeting**

August 15, 2017 Council Work Session: The chair of the Council Working Group on Waste Management Policy gave a briefing on recommendations recently made on policy issues relating to waste disposal policy and the City's Anti-Lobbying Ordinance. The Anti-Lobbying Ordinance proposed revisions were postponed and referred by Council to the Ethics Commission for review at its October 11 meeting and will return to Council on October 19.

August 17, 2017 Council Agenda: Under the City Code, Council must conduct a public hearing to receive public comment on any proposed rate changes for garbage collection rates. Staff requested to set a public hearing to receive public comments on the ARR rate changes for the Fiscal Year 2017-2018 Proposed Budget.

August 31, 2017 Council Agenda: Council approved second reading of an ordinance relating to special events and high capacity event venues, repealing and replacing City Code Chapter 14-8 relating to right-of-way closures for special events and neighborhood block parties, amending requirements for temporary food establishments during a special event, repealing City Code Section 14-6-3 relating to closures for a street festivity, amending City Code Chapter 9-2 relating to 24-hour live music and multi-day special event permits; and creating offenses and establishing penalties. This item will return to Council on November 9<sup>th</sup> for its third reading.

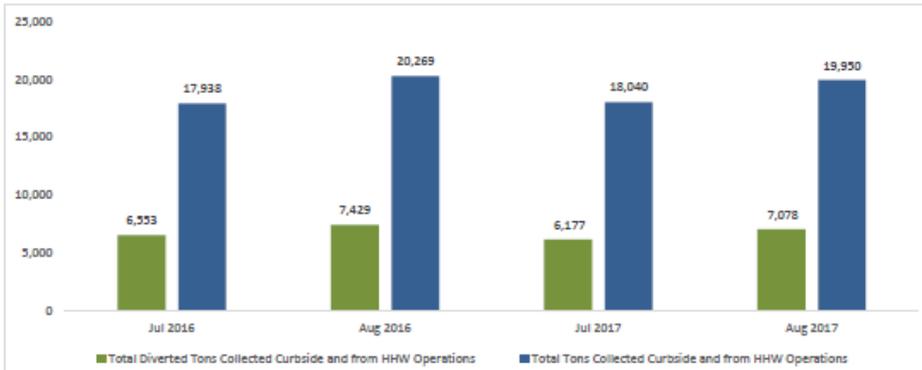
September 13, 2017 Council Agenda: The Austin City Council adopted a fiscal year 2017-2018 Budget that goes into effect Oct. 1. The budget totals roughly \$3.9 billion and contains no utility bill increase for Austin Resource Recovery.

## Statistical Reports

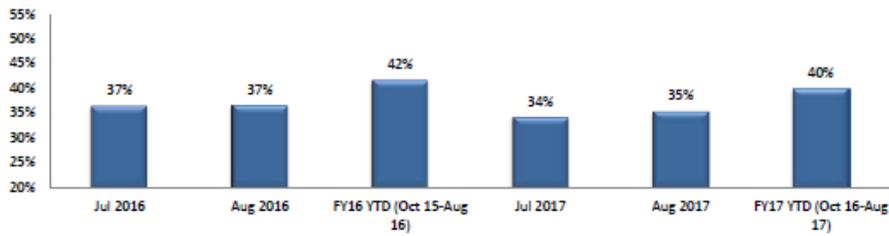
### Austin Resource Recovery Curbside Collection and HHW Operations

Description of Services	LAST FISCAL YEAR				CURRENT FISCAL YEAR			
	FY 2015	FY 2016	Jul 2016	Aug 2016 (Oct 15-Aug 16)	Jul 2017	Aug 2017 (Oct 16-Aug 17)	FY17 YTD (Oct 16-Aug 17)	FY 2017 Goal
<b>Tons Disposed</b>								
Tons of curbside Trash	130,784	129,266	10,249	11,656	10,565	11,636	121,499	124,800
Tons of Curbside Bulk Disposed	9,525	11,869	1,089	1,149	1,256	1,197	10,001	7,581
HHW Operations Tons Disposed	432	468	47	35	42	39	431	360
<b>Total Disposed Tons Collected Curbside and from HHW Operations</b>	<b>140,741</b>	<b>141,603</b>	<b>11,385</b>	<b>12,840</b>	<b>11,863</b>	<b>12,872</b>	<b>131,931</b>	<b>132,741</b>
<b>Tons Diverted</b>								
Tons of curbside recycling	57,324	58,879	4,422	5,089	4,553	5,080	53,974	65,825
HHW Operations Tons recycled/reused	311	436	44	41	44	43	425	270
Tons of Curbside Yard Trimmings	28,036	32,605	1,529	1,636	1,081	1,305	27,023	40,407
Tons of Curbside Bulk Recycled	171	276	12	12	25	9	147	142
Tons of Curbside Brush Collected	7,776	8,460	546	651	474	642	6,478	8,000
<b>Total Diverted Tons Collected Curbside and from HHW Operations</b>	<b>93,618</b>	<b>100,656</b>	<b>6,553</b>	<b>7,429</b>	<b>6,177</b>	<b>7,078</b>	<b>88,047</b>	<b>114,644</b>
<b>Total Tons Collected Curbside and from HHW Operations</b>	<b>234,359</b>	<b>242,269</b>	<b>17,938</b>	<b>20,269</b>	<b>18,040</b>	<b>19,950</b>	<b>219,979</b>	<b>247,385</b>
<b>Percent of Waste Stream Diverted by Curbside and HHW Operations</b>	<b>39.95%</b>	<b>41.55%</b>	<b>36.53%</b>	<b>36.65%</b>	<b>34.24%</b>	<b>35.48%</b>	<b>40.03%</b>	<b>46.34%</b>
<b>Pounds of Trash collected per customer per pickup</b>	<b>25.96</b>	<b>25.83</b>	<b>24.52</b>	<b>27.77</b>	<b>24.94</b>	<b>27.57</b>	<b>26.24</b>	<b>24.59</b>
Number of Trash customers	191,580	192,476	192,938	193,719	195,538	194,792	194,269	195,199
Pounds of Recycled materials collected per customer per pickup (every other week)	23.20	23.69	21.32	24.43	21.65	24.14	23.47	26.39
Pounds of Yard Trimmings collected per customer per week	5.67	6.56	3.69	3.93	2.57	3.10	5.88	6.21
Number of Recycling and Yard Trimmings customers	190,088	191,156	191,511	192,292	194,168	194,255	192,989	191,864
Number of PAYT pickups	52	52	4.33	4.33	4.33	4.33	47.66	52
Total tons of Dead Animals Collected from COA rights-of-way and the animal shelter	62	39	3	2	4	3	41	67
Estimated tons of curbside recycling processed by vendors as residual - based on bi-annual sample route audit	8,684	9,556	747	848	780	871	8,661	N/A
Tons of Curbside Textiles Collected	N/A	N/A	N/A	N/A	15	12	235	N/A
Tons of Curbside Compost Collected	4,252	4,123	254	291	241	304	4,719	N/A

### Austin Resource Recovery Curbside Collection and HHW Operations



### Percent of Waste Stream Diverted from Curbside and HHW Operations

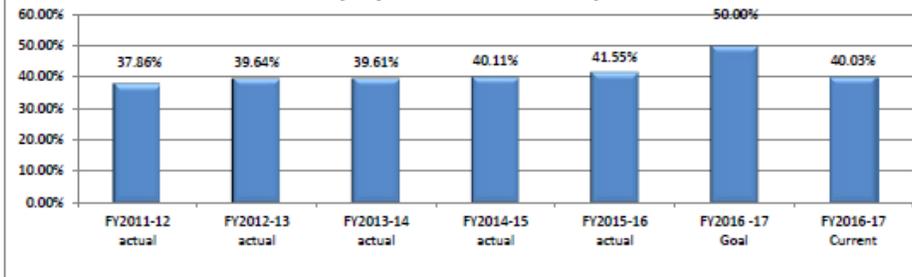


### Reporting Status and Diversion Results for All Categories of Waste Generation

Category of Waste Generation	FY2011-12 actual	FY2012-13 actual	FY2013-14 actual	FY2014-15 actual	FY2015-16 actual	FY2016 -17 Goal	FY2016-17 Current
Residential Waste Diversion (city serviced accounts)	37.86%	39.64%	39.61%	40.11%	41.55%	50.00%	40.03%
Commercial / Industrial Waste Diversion	information not available*						
Institutional Waste Diversion	information not available*						

\* Commercial, Industrial, and Institutional materials are not separately quantified and reported because licensed haulers do not separately collect and manage these materials (e.g., a commercial collection route can include both commercial businesses and institutional facilities).\* (Page 51 - Austin's 2015 Community Diversion Study)

### Residential Waste Diversion (city serviced accounts)



**Zero Waste Advisory Commission - October 11th, 2017**

**Single Stream Recycling Statistical Report**

**FY17: October 2016 - August 2017**

**Texas Disposal Systems (TDS) and Balcones Resources, Inc. (BRI)**

Month and Year	Contractor	Tons Delivered	Contractor Payments			Net Value to the City	Landfill Cost Avoidance	
			Revenue	Processing Cost	Net Amount Due/(Owed)	\$ per ton value	Cost Per Ton	Total
October 2016	TDS	1,938.46	\$97,782	\$175,431	(\$77,649)	(\$40.06)	\$21.55	\$41,774
	BRI	2,560.51	\$80,302	\$191,070	(\$110,768)	(\$43.26)	\$21.55	\$55,179
	<b>Total</b>	<b>4,498.97</b>	<b>\$178,083</b>	<b>\$366,501</b>	<b>(\$188,417)</b>			<b>\$96,953</b>
November 2016	TDS	2,033.25	\$107,888	\$184,009	(\$76,122)	(\$37.44)	\$21.55	\$43,817
	BRI	2,950.92	\$91,524	\$214,105	(\$122,580)	(\$41.54)	\$21.55	\$63,592
	<b>Total</b>	<b>4,984.17</b>	<b>\$199,412</b>	<b>\$398,114</b>	<b>(\$198,702)</b>			<b>\$107,409</b>
December 2016	TDS	1,818.52	\$98,093	\$164,576	(\$66,483)	(\$36.56)	\$21.55	\$39,189
	BRI	3,280.63	\$102,662	\$232,435	(\$129,773)	(\$39.56)	\$21.55	\$70,698
	<b>Total</b>	<b>5,099.15</b>	<b>\$200,755</b>	<b>\$397,011</b>	<b>(\$196,256)</b>			<b>\$109,887</b>
January 2017	TDS	2,740.22	\$154,167	\$247,990	(\$93,823)	(\$34.24)	\$21.55	\$59,052
	BRI	2,757.55	\$92,743	\$202,695	(\$109,952)	(\$39.87)	\$21.55	\$59,425
	<b>Total</b>	<b>5,497.77</b>	<b>\$246,910</b>	<b>\$450,685</b>	<b>(\$203,775)</b>			<b>\$118,477</b>
February 2017	TDS	2,110.15	\$132,112	\$190,969	(\$58,857)	(\$27.89)	\$21.55	\$45,474
	BRI	2,436.68	\$90,979	\$183,764	(\$92,785)	(\$38.08)	\$21.55	\$52,510
	<b>Total</b>	<b>4,546.83</b>	<b>\$223,091</b>	<b>\$374,732</b>	<b>(\$151,641)</b>			<b>\$97,984</b>
March 2017	TDS	1,777.91	\$127,968	\$160,901	(\$32,933)	(\$18.52)	\$21.55	\$38,314
	BRI	3,360.68	\$136,726	\$236,838	(\$100,112)	(\$29.79)	\$21.55	\$72,423
	<b>Total</b>	<b>5,138.59</b>	<b>\$264,694</b>	<b>\$397,738</b>	<b>(\$133,044)</b>			<b>\$110,737</b>
April 2017	TDS	1,808.09	\$119,851	\$163,632	(\$43,782)	(\$24.21)	\$21.55	\$38,964
	BRI	2,707.85	\$104,433	\$199,763	(\$95,330)	(\$35.21)	\$22.55	\$61,062
	<b>Total</b>	<b>4,515.94</b>	<b>\$224,283</b>	<b>\$363,395</b>	<b>(\$139,112)</b>			<b>\$100,026</b>
May 2017	TDS	2,162.50	\$127,648	\$195,706	(\$68,058)	(\$31.47)	\$21.55	\$46,602
	BRI	2,896.43	\$88,036	\$210,890	(\$122,854)	(\$42.42)	\$21.55	\$62,418
	<b>Total</b>	<b>5,058.93</b>	<b>\$215,684</b>	<b>\$406,596</b>	<b>(\$190,912)</b>			<b>\$109,020</b>
June 2017	TDS	1,851.35	\$110,172	\$167,547	(\$57,376)	(\$30.99)	\$21.99	\$40,711
	BRI	3,134.92	\$95,554	\$224,421	(\$128,867)	(\$41.11)	\$21.99	\$68,937
	<b>Total</b>	<b>4,986.27</b>	<b>\$205,726</b>	<b>\$391,968</b>	<b>(\$186,242)</b>			<b>\$109,648</b>
July 2017	TDS	1,997.05	\$125,836	\$180,733	(\$54,897)	(\$27.49)	\$21.99	\$43,915
	BRI	2,556.07	\$84,303	\$190,808	(\$106,505)	(\$41.67)	\$21.99	\$56,208
	<b>Total</b>	<b>4,553.12</b>	<b>\$210,139</b>	<b>\$371,541</b>	<b>(\$161,402)</b>			<b>\$100,123</b>
August 2017	TDS	2,191.02	\$142,677	\$198,287	(\$55,610)	(\$25.38)	\$21.99	\$48,181
	BRI	2,888.05	\$97,298	\$210,395	(\$113,097)	(\$39.16)	\$21.99	\$63,508
	<b>Total</b>	<b>5,079.07</b>	<b>\$239,975</b>	<b>\$408,682</b>	<b>(\$168,707)</b>			<b>\$111,689</b>
<b>FY17 Totals</b>		<b>53,958.81</b>	<b>\$2,408,752</b>	<b>\$4,326,963</b>	<b>(\$1,918,212)</b>			<b>\$1,171,952</b>